"Interesting and new for their site"

-Valentina

Community-driven Interface Development

Suddenly, it hit me

- I H.C.I. studies
- My programmer does not actually know what the community wants.
 - make tools, get excited by tools, show-case those tools

 It is unlikely that each clade-specific community will be the same.

It's the community, Stupid

For each clade:

- Phase 1 : Subjective assessment
 - Find the scientific community (3 mo)
- Phase 2 : Design and refinement
 - Solicit the scientific community (2 mo)
- Phase 3: Performance assessment
 - Evaluate if they are happy (1 mo)
- Repeat
 - (forever)

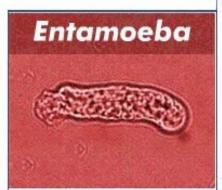
Personnel

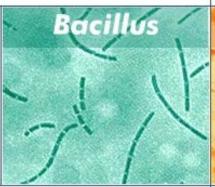
Project Coordinator (Lauren)

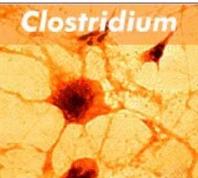
Per clade:

Assign Contact Bioinformatics Analyst Assign Contact Bioinformatics Engineer













"your baby is always beautiful"

Genomes Available

+ Burkholderia mallei (7)

+ Burkholderia pseudomallei (7)

Highlighted Tools

- Genomes to be sequenced
- Strain & DNA availability

BEI Resources

Acquire resources from BEI Deposit resources at BEI Search BEI for resources

- + Virulence factors
- Protocols

TIGR Annotation SOPs Gene Prediction Homology Searches Automated Annotation Manual Curation Overlaps Start Site Curation Short ORF Frameshift

Submit protocols to Pathema

- Microarrays PEGRO

> Burkholderia microarray Microarray request process

Burkholderia gene lists

Google™ Search

Search

Search pathema.tigr.org

Search the www

Welcome to the Pathema Burkholderia Resource

As an NIAID Bioinformatics Resource Center (BRC) Pathema contains in depth curatorial analysis of six target organisms from the list of NIAID category A-C pathogens, Pathema also offers single-genome and comparative multi-genome analyses as well as display tools at the genome, gene, and pathway level for these pathogens.

Pathema Menu Bar Tools

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Search Pathema for genes, genomes, sequence regions, and evidence.

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Carts

Select genome preferences from our Genome Cart or download your Gene Cart genes.

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Additional Resources

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Announcements

Latest Releases

Data Release: 4.0 Website Version: 2.1

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Presentations

- TIGR: Aug 8-10, 2006
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Anthrax Resou

Web Usage Sta

TIGR Role Ids

Last Updated: July 14, 2006 | Contact Us | @ 1999-2006 The Institute for Genomic Research

Phase 1: Subjective assessment

Identify targets:

axe TIGR faculty - Contact BA compile email list contact authors
Create online survey
Email and track survey lists
Correlate results

Phase 2: Design and Refinement

Coordinate w/ web development team

Design Prototype

Consolidate literature and data
Epidemiology literature
IEDB collaboration
update new characterized tables
curate data dump of genus specific characterizations
update with additional characterizations

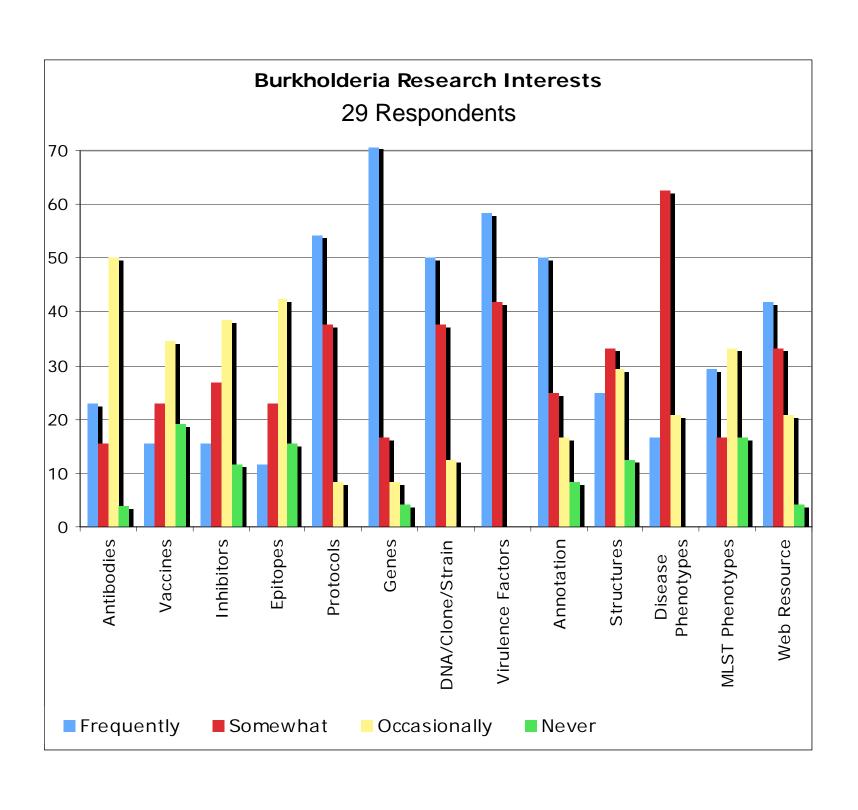
Data storage
organism specific database
implement characterized tables
Gemina database

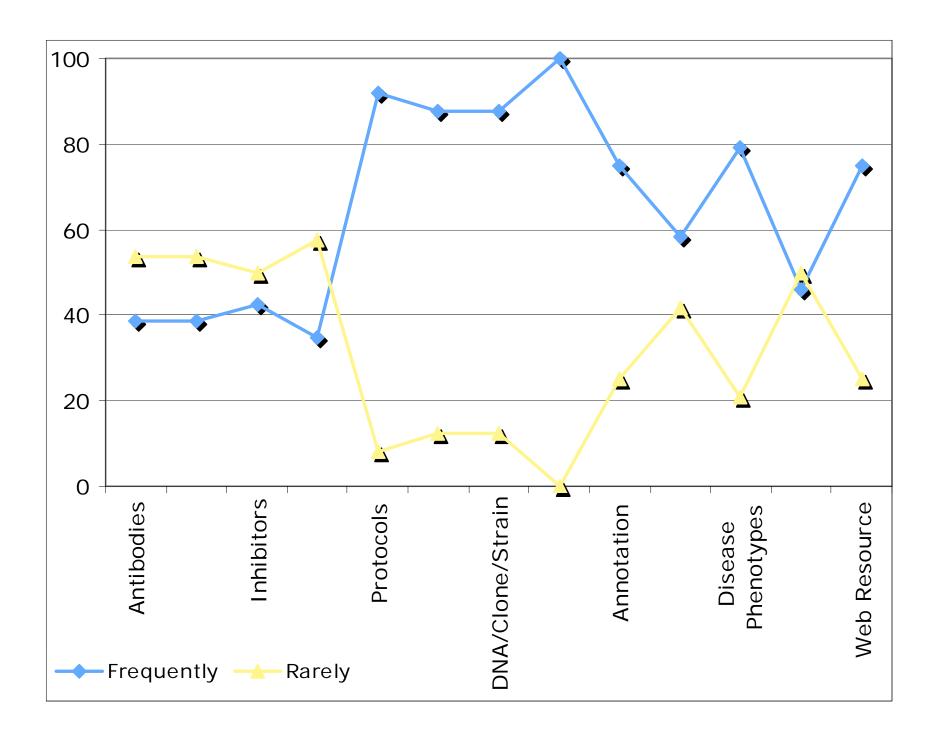
Phase 3: Performance assessment

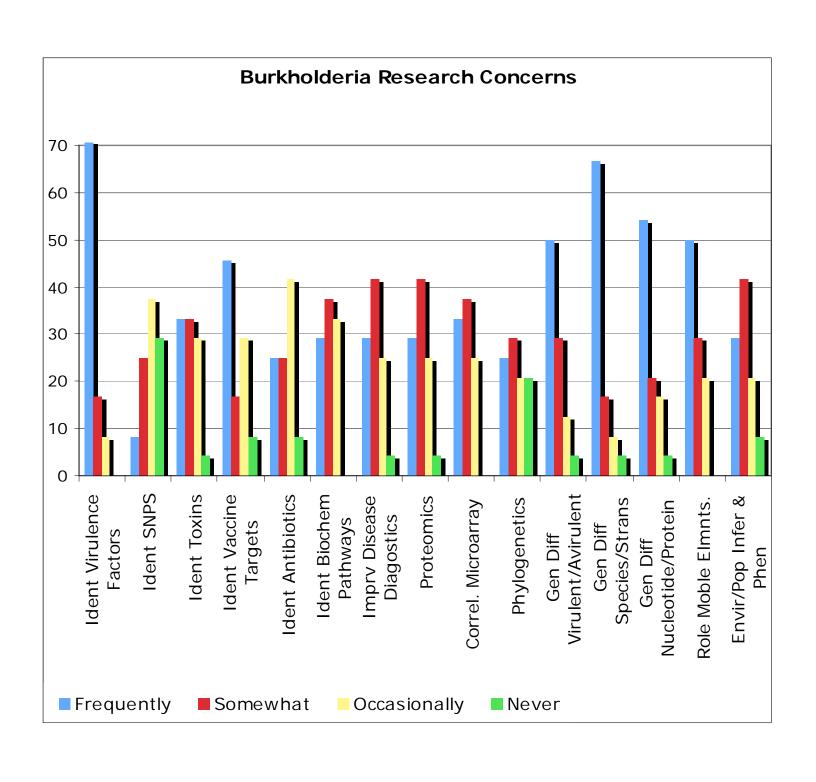
Tool development

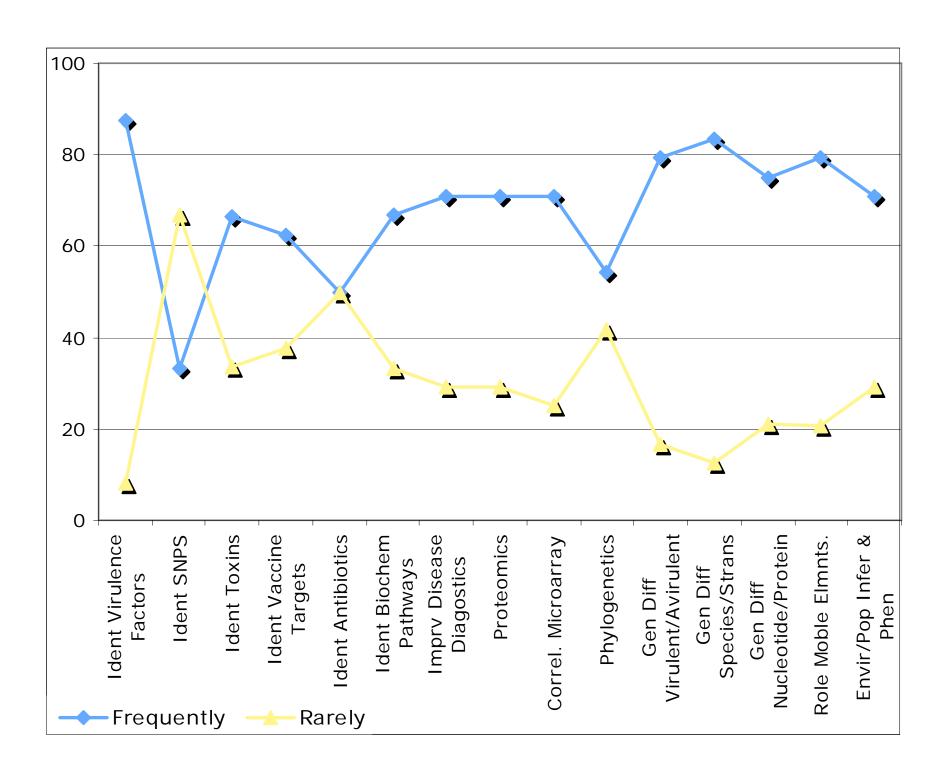
Coordinate w/ web development team Continue to consolidate literature and data

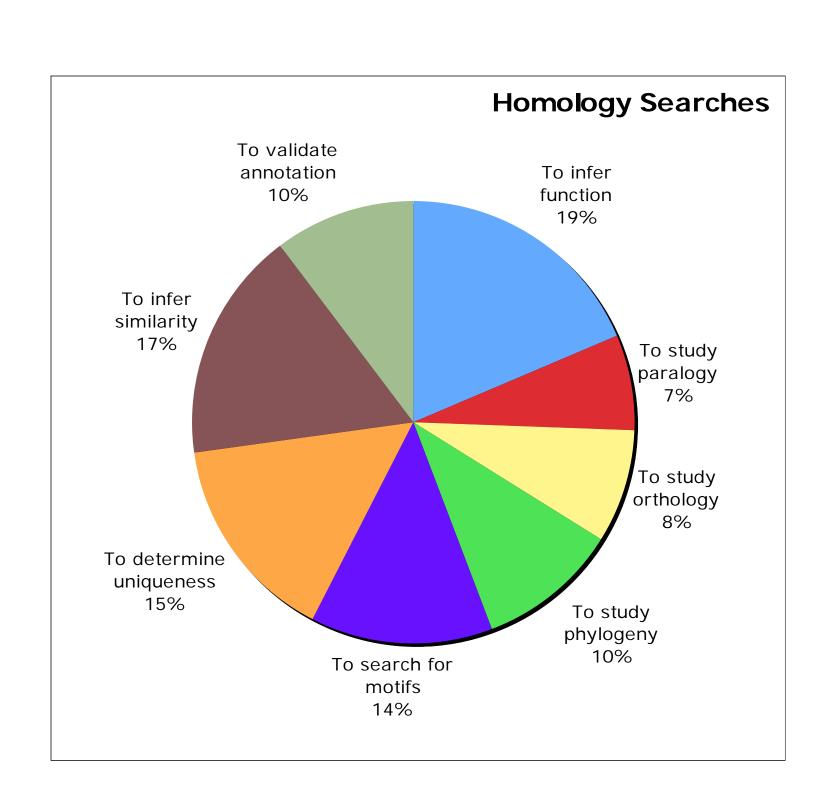
Continual solicitation of community editorial/usage feedback

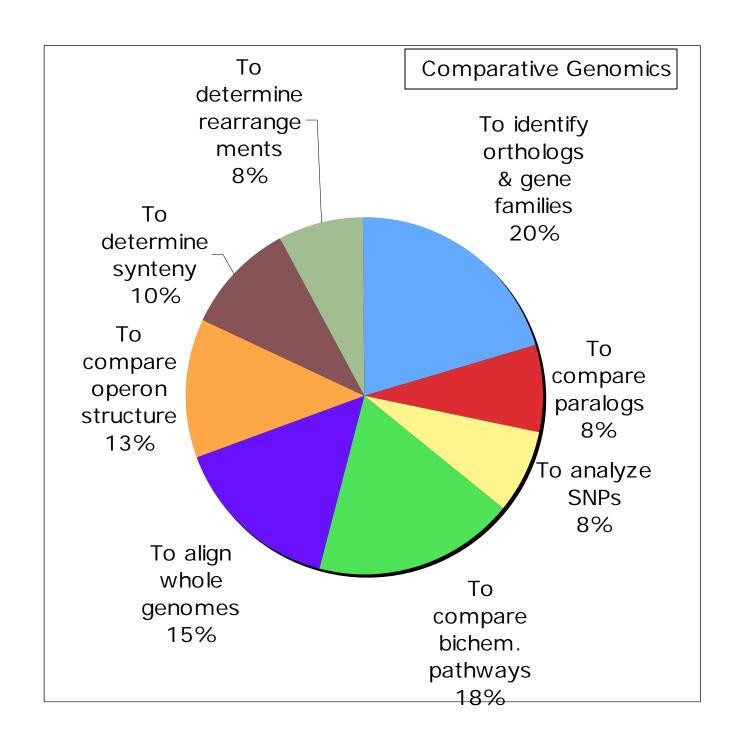














tigr cmr

comprehensive microbial resource

CMR Home

Genomes

CMR Blast

Align Genomes

Related Links

Help

Genome vs. Genome Protein Hits

Comparing 2 genomes vs. reference genome with matches defined above 80% similarity

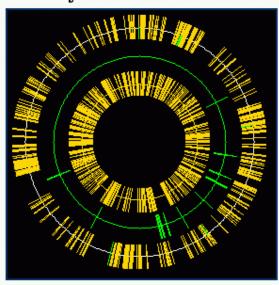
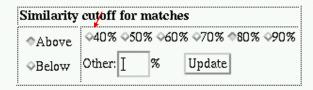


Image size: Smaller Larger Huge

This figure shows the protein matches of each comparison genome to the reference genome. Each ring of the circular display represents a genome and each tick mark represents a gene match along the length of the genome. The outer ring displays the reference genome and the inner rings display each comparison genome.



Reference Genome

Enterococcus faecalis V583

Comparison Genomes

Modify list

Haemophilus influenzae KW20

Lactococcus lactis subsp. lactis IL1403

14 genes match reference

333 genes match reference

347 total gene matches to reference genome Logic

Summary statistics for reference genome

323 reference genes match a comparison genome at least once for the given criteria Logic 12 reference genes match all comparison genomes for the given criteria Logic 3011 reference genes match none of the comparison genomes for the given criteria Logic



tigr cmr

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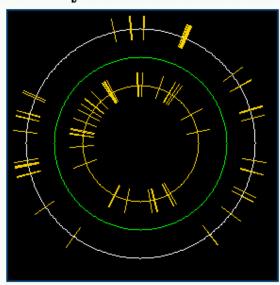
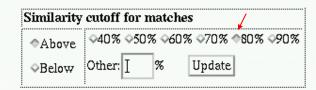


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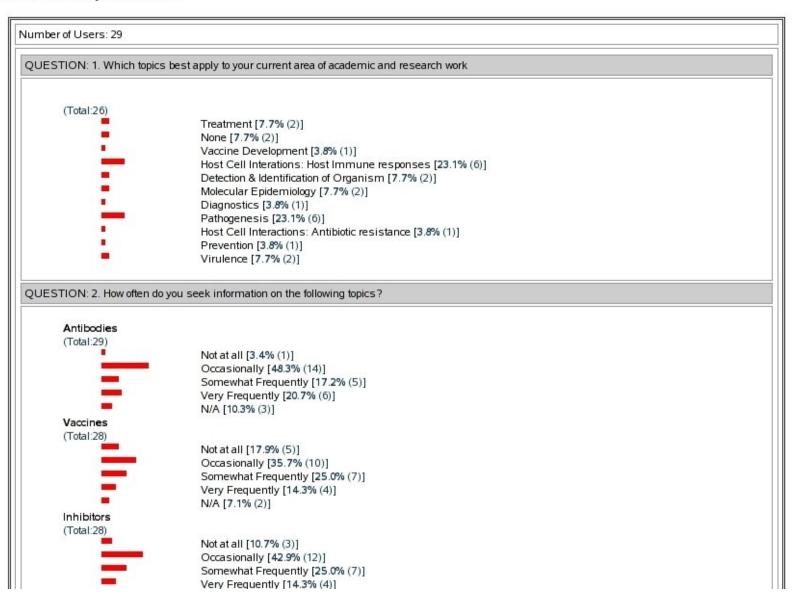
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Burkholderia Survey Results



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Genome Tools

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Pathema - Burkholderia

Bioinformatics Resource Center

Orga

Comparative Tools

Burkholderia Strain List

Burkholderia pseudomallei Strains

Strain	Sequencing Center	Original Source	Clinical Data	MLST
K96243	Sanger	Sirirurg Songsivilai	Isolated in 1996 from a 34 year old female diabetic patient at Khon Kaen hospital, northeast Thailand with a clinical history of short incubation, septicemic infection, and rapid progression to death.	ST 10
1710a	TIGR	Wellcome Unit, Bangkok	Isolated from blood culture in 1996 from a 52-year old male rice farmer with a new diagnosis of diabetes mellitus presenting to Sappasithiprasong hospital, Ubon Ratchathani, NE Thailand. Disseminated disease (bacteremia plus lung and soft tissue involvement). Survived to discharge. Relapsed in 1999 (see below).	ST 177
1710b	TIGR	Wellcome Unit, Bangkok	Isolated from blood culture in March 1999 from patient described above. Died on day of admission.	ST 177
1106a	TIGR	Wellcome Unit, Bangkok	Isolated from pus aspirated from liver abscess in 1993 from a 23-year old female rice farmer presenting to Sappasithiprasong hospital. Risk factors: thalassaemia and splenectomy. Multiple hepatic abscesses. Survived to discharge. Relapsed in 1996 (see below).	ST 70
1106b	TIGR	Wellcome Unit, Bangkok	Isolated from pus aspirated from liver abscess in 1996 from patient described above. Survived to discharge.	ST 70
S13	TIGR	Singapore	Mucoid environmental strain.	ST 51
1655	TIGR	Australia	From Menzies School of Health Research. 2003 sputum isolate from a 64 year old female patient from Darwin treated at Royal Darwin Hospital for chronic pulmonary melioidosis on a background of severe bronchiectasis.	ST 131
668	TIGR	Australia	From Menzies School of Health Research. 1995 blood culture isolate from a 53 year old male patient from Darwin with severe melioidosis encephalomyelitis. Required prolonged ventilation at Royal Darwin Hospital ICU but survived with good cognitive function but residual hemiparesis.	ST 129
406e	TIGR	Wellcome Unit, Bangkok	Isolated from toe swab in 1988 from a 21-year old male labourer presenting to Sappasithiprasong hospital. Disseminated disease	ST 211

Search Annotation ▼ for

Genome Tools

Searches

Comparative Tools | Lists | Downloads

Home > Lists > All Genes > Gene List

Organism

Primary Annotation Gene List 3

Burkholderia mallei ATCC:23344

Downloa

Selected Annotation: Primary Annotation

Add to Gene Cart

Select All

Clear All

1 - 250 of 5239 results | next

7/2-								
Cart	Locus	Gene Symbol	Common Name E Num		5' End	3' End	DNA molecule	
	BMA_0001	dnaA	chromosomal replication initiator protein DnaA	omal replication initiator protein DnaA		1626	large chromosome Burkholderia mallei ATCC:23344	
П	BMA_A0001		hypothetical protein	hypothetical protein 1		2326	small chromosome Burkholderia mallei ATCC:23344	
	BMA_0002	dnaN	DNA polymerase III, beta subunit	2.7.7.7	1789	2892	large chromosome Burkholderia mallei ATCC:23344	
	BMA_0003	gyrB	DNA gyrase, B subunit	5.99.1.3	3081	5549	large chromosome Burkholderia mallei ATCC:23344	
	BMA_A0002		phage integrase family protein		3463	2420	small chromosome Burkholderia mallei ATCC:23344	
	BMA_A0003		hypothetical protein		3955	3626	small chromosome Burkholderia mallei ATCC:23344	
	BMA_A0004		DNA-binding protein		4694	4086	small chromosome Burkholderia mallei ATCC:23344	
	BMA_A0005	kbl	2-amino-3-ketobutyrate coenzyme A ligase	2.3.1.29	4862	6061	small chromosome Burkholderia mallei ATCC:23344	
	BMA_A0006	tdh	L-threonine 3-dehydrogenase	1.1.1.103	6074	7105	small chromosome Burkholderia mallei	

Searches

Home

Home > Lists > All Genes > Gene List

Org

Gene List By Evidence Type 3

Burkholderia mallei ATCC:23344

Do

Selected Annotation: Primary Annotation Selected Evidence Types: IDA, IMP

Add to Gene Cart

Select All

Clear All

1 - 5 of

Cart	Locus	Gene Symbol	Common Name	EC Number	5' End	3' End	Evidence Type: Function	Evidence Type: Process	DNA molecu
	BMA_0315		efflux transporter, RND family, MFP subunit		330873	332135	<u>IDA</u>	IDA	large chromoso Burkholderia m ATCC:23344
Б	BMA_0316		hydrophobe/amphiphile efflux family protein		332151	335351	IDA	<u>IDA</u>	large chromoso Burkholderia m ATCC:23344
	BMA_2888		acid phosphatase AcpA		2981117	2979384	IDA	ND	large chromoso Burkholderia m ATCC:23344
Б	BMA_A1046		RND efflux system, outer membrane lipoprotein, NodT family		1088036	1089574	IDA	IDA	small chromos Burkholderia m ATCC:23344
	BMA_A0749		hemagglutinin domain protein		769356	768235	ND	<u>IMP</u>	small chromos Burkholderia m ATCC:23344

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Trends

Develop surrogates

People really do participate in surveys

Many solutions were simple

Trends

- People really like:
 - Evidence
 - "experimentally determined" information
 - Publications
 - Protocols

Soon

Rat Genome Database: "How do I...." page.

Next few months

SWAT team custom analysis

- Email list and survey development defines responsive users
- Choose two
- Create situation-room
- Develop solution, walk user through
- Roll into interface
- Question: do people really need the interface?

Image: the BRC smokejumper